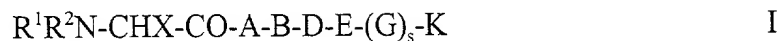


CLAIMS

What is claimed is:

- 5 1. Novel peptides of the formula I



where

R^1 is hydrogen, methyl; or ethyl;

R^2 is methyl; or ethyl; or

- 10 $\text{R}^1\text{-N-R}^2$ together are a pyrrolidine ring;

A is a valyl, isoleucyl, allo-isoleucyl, 2-tert-butylglycyl, 2-ethylglycyl, norleucyl or norvalyl residue;

B is a N-methyl-valyl, N-methyl-norvalyl, N-methyl-leucyl, N-methyl-isoleucyl, N-methyl-2-tert-butylglycyl, N-methyl-2-ethylglycyl, or N-methyl-norleucyl residue;

- 15 D is a prolyl, homoprolyl, hydroxyprolyl, or thiazolidine-4-carbonyl residue;

E is a prolyl, homoprolyl, hydroxyprolyl, thiazolidine-4-carbonyl, trans-4-fluoro-L-prolyl, cis-4-fluoro-L-prolyl, trans-4-chloro-L-prolyl or cis-4-chloro-L-prolyl residue;

- 20 X is ethyl, propyl, butyl, isopropyl, sec. butyl, tert.-butyl, cyclopropyl, or cyclopentyl;

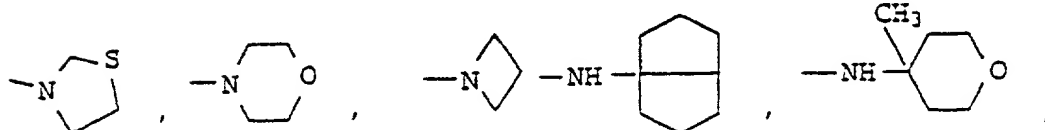
G is a L-2-tert.butylglycyl, D-2-terr.butylglycyl, D-valyl, D-isoleucyl, D-leucyl, D-norvalyl, 1-aminopentyl-1-carbonyl, or 2,2-dimethylglycyl residue;

- 25 s is 0 or 1;

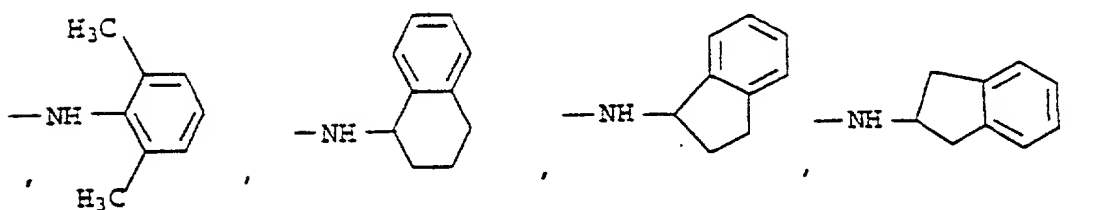
K is $\text{-NH-C}_{1-8}\text{-alkyl}$, $\text{-NH-C}_{3-8}\text{-alkenyl}$, $\text{-NH-C}_{3-8}\text{-alkinyl}$, $\text{-NH-C}_{6-8}\text{-cycloalkyl}$, $\text{-NH-C}_{1-4}\text{-alkene-C}_{3-8}\text{-cycloalkyl}$, $\text{C}_{1-4}\text{-alkyl-N-C}_{1-6}\text{-alkyl}$, in which residues one CH_2 group may be replaced by O or

S, one H by phenyl or cyano, or 1, 2 or 3 H by F, except the N-methoxy-N-methylamino, N-benzylamino, or N-methyl-N-benzylamino residue, or K is

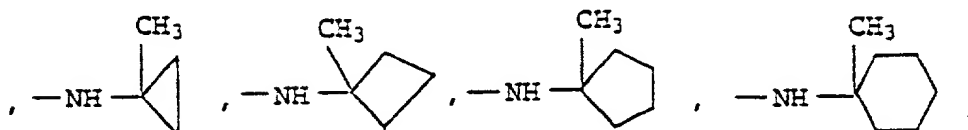
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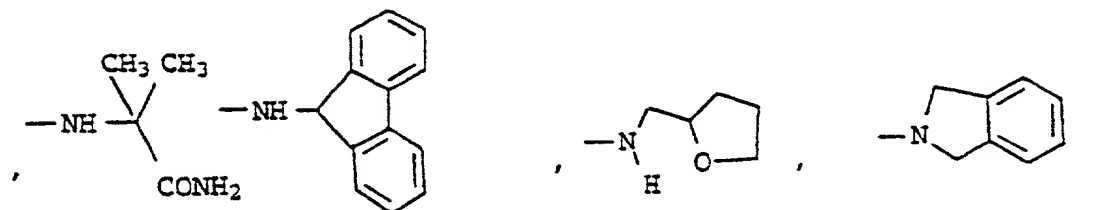
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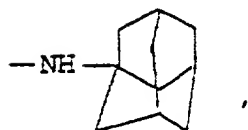
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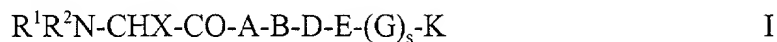


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and the salts thereof with physiologically tolerated acids.

2. Novel peptides of the formula I

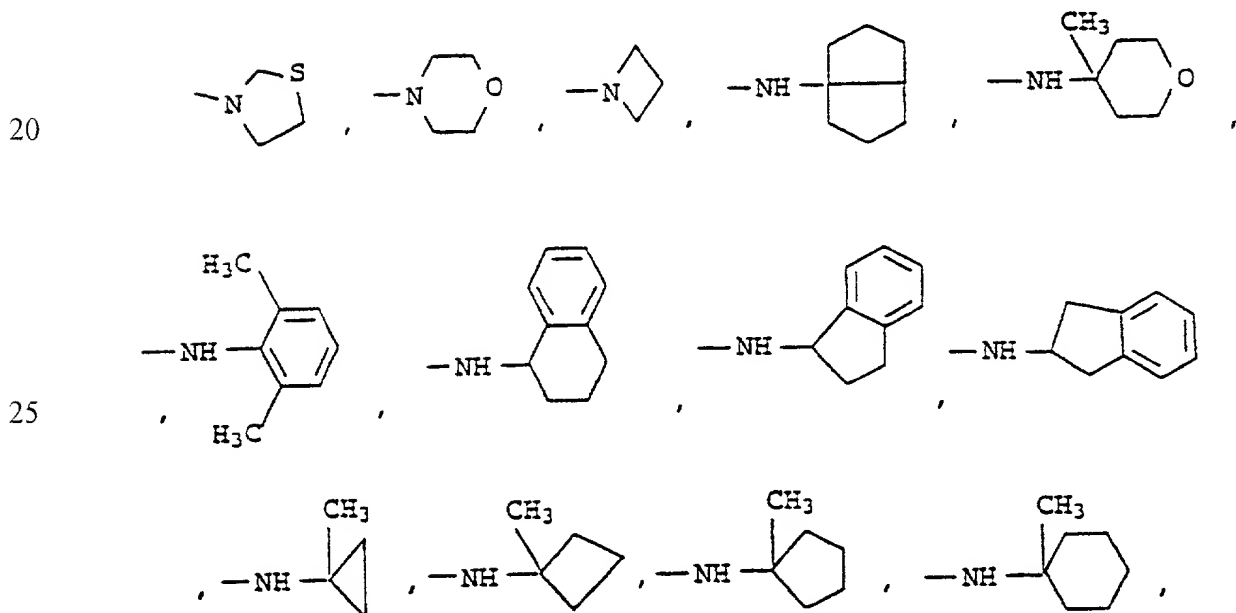


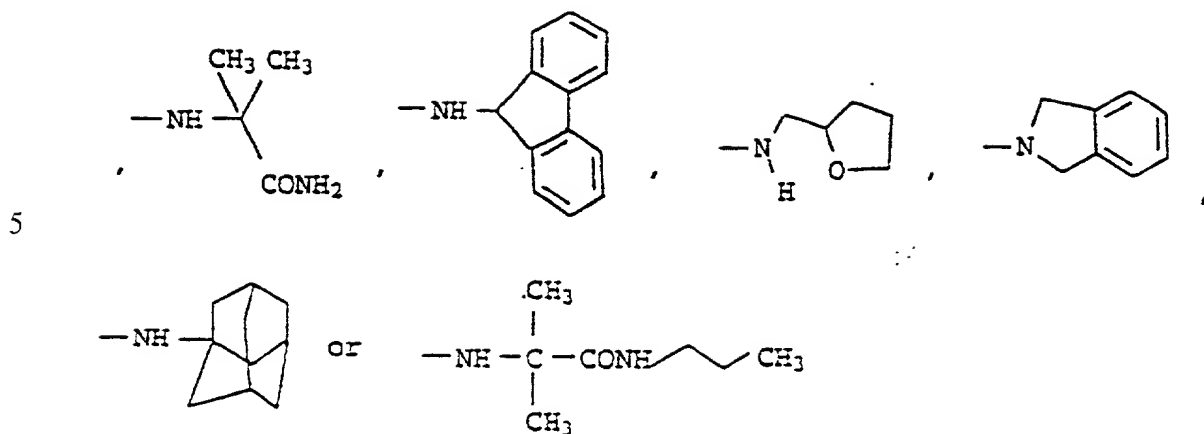
where

- R^1 is hydrogen, methyl; or ethyl;
 5 R^2 is methyl; or ethyl ; or
 R^1-N-R^2 together are a pyrrolidine ring;
 A is a valyl, isoleucyl, allo-isoleucyl, 2-tert-butylglycyl, 2-ethylglycyl, norleucyl or norvalyl residue;
 B is a N-methyl-valyl, N-methyl-norvalyl, N-methyl-leucyl, N-methyl-isoleucyl, N-methyl-2-tert-butylglycyl, N-methyl-2-ethylglycyl, or N-methyl-norleucyl residue;
 10 D is a prolyl, homoprolyl, hydroxyprolyl, or thiazolidine-4-carbonyl residue;
 E is a prolyl, homoprolyl, hydroxyprolyl, thiazolidine-4-carbonyl, trans-4-fluoro-L-prolyl, cis-4-fluoro-L-prolyl, trans-4-chloro-L-prolyl or cis-4-chloro-L-prolyl residue;
 15 X is ethyl, propyl, butyl, isopropyl, sec. butyl, tert.butyl, cyclopropyl, or cyclopentyl;
 G is a L-2-tert.butylglycyl, D-2-terr.butylglycyl, D-valyl, D-isoleucyl, D-leucyl, D-norvalyl, 1-aminopentyl-1-carbonyl, or 2,2-dimethylglycyl residue;
 20 s is 0 or 1;
 K -NHCH₃, -NHCH₂CH₃, -NH(CH₂)₂CH₃, -NH(CH₂)₃CH₃, -NH(CH₂)₄CH₃, -NH(CH₂)₅CH₃, -NH(CH₂)₆CH₃,
 25 -NHCH(CH₂)₇CH₃, -NHCH(CH₃)₂, -NHCH(CH₃)CH₂CH₃, -NHCH(CH₂CH₃)₂, -NHCH(CH₂CH₂CH₃)₂, -NHC(CH₃)₃, -NHCH(CH₂CH₃)CH₂CH₂CH₃, -NHCH(CH₃)CH(CH₃)₂, -NHCH(CH₂CH₃)CH(CH₃)₂, -NHCH(CH₃)C(CH₃)₃, -NH-cyclohexyl, -NH-cycloheptyl, -NH-cyclooctyl,

- N(CH₃)OCH₂CH₃, -N(CH₃)OCH₂CH₂CH₃, -N(CH₃)OCH(CH₃)₂,
 -N(CH₃)O(CH₂)₃CH₃, -N(CH₃)OCH₂C₆H₅, -NH(CH₂)₂C₆H₅,
 -NH(CH₂)₃C₆H₅, -NHCH(CH₃)C₆H₅, -NHC(CH₃)₂C₆H₅,
 -NHC(CH₃)₂CH₂CH₃, -NHC(CH₃)(CH₂CH₃)₂, -NHCH[CH(CH₃)₂]₂,
 -NHC(CH₃)₂CN, -NHCH(CH₃)CH(OH)C₆H₅, -NHCH₂-cyclohexyl,
 -NHCH₂C(CH₃)₃, -NHCH₂CH(CH₃)₂, -NHCH₂CF₃, -NHCH(CH₂F)₂,
 -NHCH₂CH₂F, -NHCH₂CH₂OCH₃, -NHCH₂CH₂SCH₃,
 -NHCH₂CHCH₂, -NH-C(CH₃)₂CH=CH₂, -NHC(CH₃)₂C≡CH,
 -NHC(CH₂CH₃)₂C≡CH, -NHC(CH₃)₂CH₂CH₂OH,
 -NH(CH₂CH₂O)₂CH₂CH₃, -NHC(CH₃)₂CH(CH₃)₂,
 -NHC(CH₃)₂CH₂CH₂CH₃, -NHC(CH₃)₂CH₂C₆H₅,
 -N(OCH₃)CH(CH₃)₂, -N(OCH₃)CH₂CH₃, -N(OCH₃)CH₂CH₂CH₃,
 -N(OCH₃)CH₂C₆H₅, -N(OCH₃)C₆H₅, -N(CH₃)OC₆H₅,
 -NHCH[CH(CH₃)₂]₂, -N(OCH₃)CH₂CH₂CH₂CH₃,

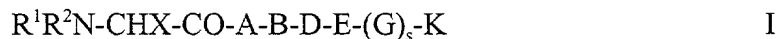
or K is





And the salts thereof with physiologically tolerated acids.

3. Novel peptides of the formula I



15 where

R^1 is hydrogen, methyl; or ethyl;

R^2 is methyl; or ethyl ;

A is a valyl, isoleucyl, 2-tert-butylglycyl, 2-ethylglycyl, norleucyl or norvalyl residue;

20 B is a N-methyl-valyl, N-methyl-norvalyl, N-methyl-isoleucyl, N-methyl-2-tert-butylglycyl, N-methyl-2-ethylglycyl, or N-methyl-norleucyl residue;

D is a prolyl, or thiazolidine-4-carbonyl residue;

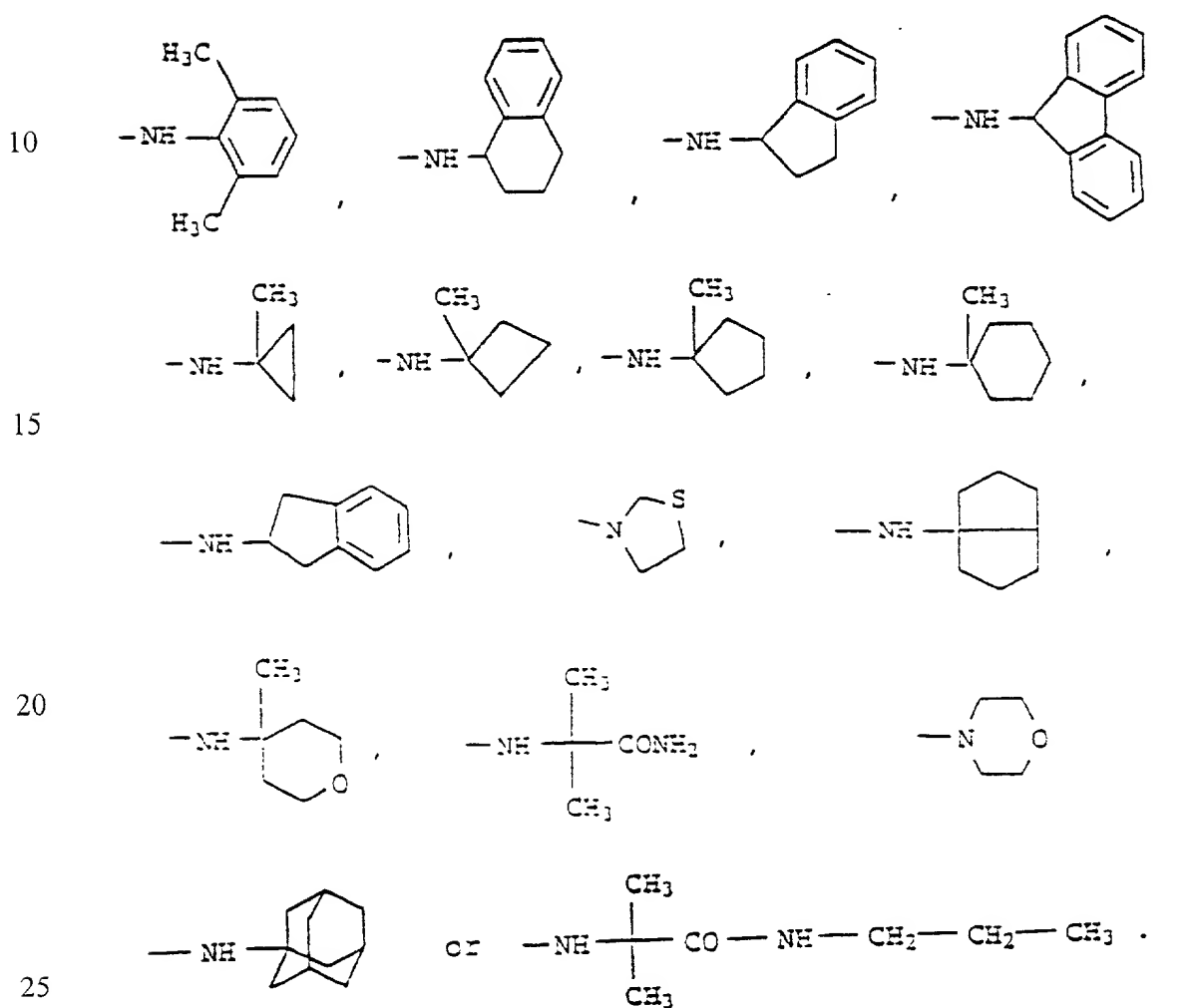
25 E is a prolyl, homoprolyl, thiazolidine-4-carbonyl, trans-4-fluoro-L-prolyl, cis-4-fluoro-L-prolyl, trans-4-chloro-L-prolyl or cis-4-chloro-L-prolyl residue;

X is ethyl, propyl, isopropyl, sec. butyl, tert.-butyl, or cyclopropyl;

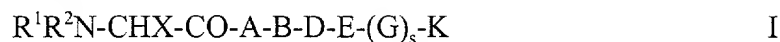
G is a L-2-tert.butylglycyl, D-2-terr.butylglycyl, D-valyl, D-isoleucyl, D-leucyl, or 2,2-dimethylglycyl residue;

s is 0 or 1;

K is $-\text{NH}-\text{C}_{1-8}\text{-alkyl}$, $-\text{NH}-\text{C}_{6-8}\text{-cycloalkyl}$, $-\text{NH}-\text{CH}_2\text{-cyclohexyl}$, $\text{C}_{1-4}\text{-alkyl-N-C}_{1-6}\text{-alkyl}$, in which residues one CH_2 group may be replaced by O, one H by phenyl or 1 or 2 H by F, except the N-methoxy-N-methylamino, N-benzylamino or N-methyl-N-benzylamino residue, or K is



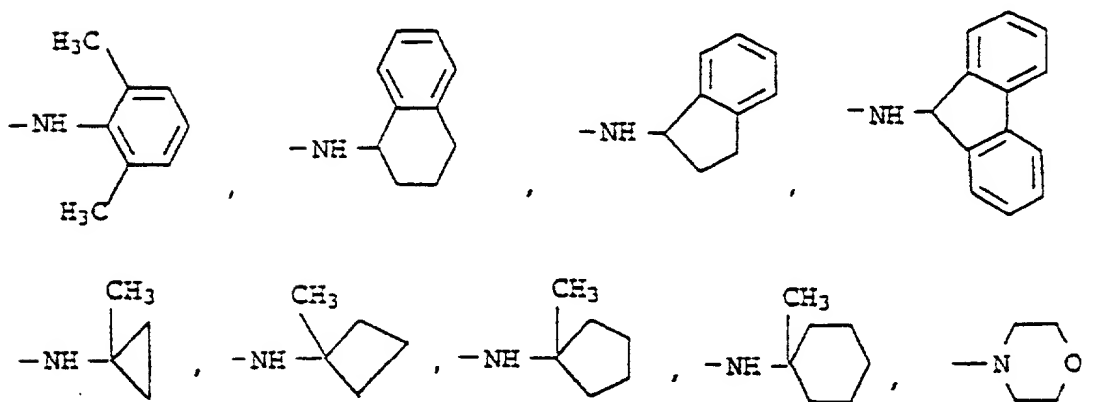
4. Novel peptides of the formula I



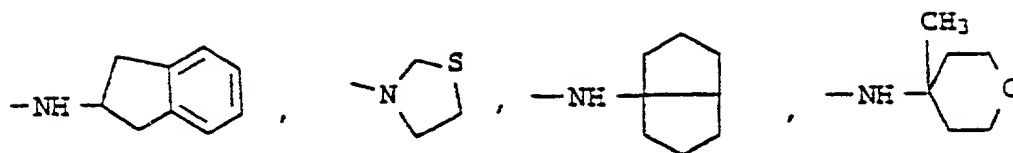
where

- R^1 is methyl;
 5 R^2 is methyl;
 A is a valyl, isoleucyl, 2-tert-butylglycyl, or 2-ethylglycyl;
 B is a N-methyl-valyl, N-methyl-isoleucyl, N-methyl-2-tert-butylglycyl, N-methyl-2-ethylglycyl, or N-methyl-norleucyl residue;
 D is a prolyl, or thiazolidine-4-carbonyl residue;
 10 E is a prolyl, trans-4-fluoro-L-prolyl, cis-4-fluoro-L-prolyl, trans-4-chloro-L-prolyl or cis-4-chloro-L-prolyl residue;
 X is ethyl, isopropyl, sec. butyl, or tert.butyl ;
 G is a L-2-tert.butylglycyl, D-2-terr.butylglycyl, D-valyl, D-isoleucyl, D-leucyl, or 2,2-dimethylglycyl residue;
 15 s is 0 or 1;
 K is $-NH-C_{1-8}$ -alkyl, $-NH-C_{6-8}$ -cycloalkyl, $-NH-CH_2$ -cyclohexyl, C_{1-4} -alkyl-N- C_{1-6} -alkyl, in which residues one CH_2 group may be replaced by O, one H by phenyl or 1 or 2 H by F, except the N-methoxy-N-methylamino, N-benzylamino or N-methyl-N-benzylamino residue, or K is

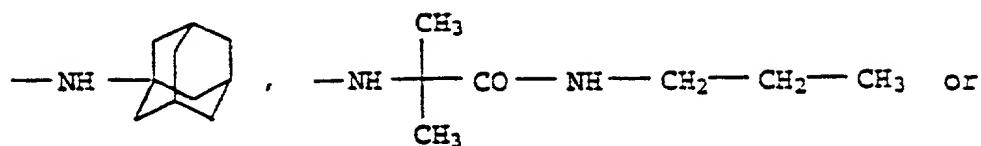
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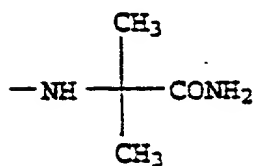
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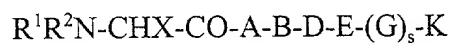
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5. Novel peptides of the formula I



I

where

15

 R^1 is methyl; R^2 is methyl;

A is a valyl, isoleucyl, or 2-tert-butylglycyl residue;

B is a N-methyl-valyl, N-methyl-isoleucyl, or N-methyl-2-tert-butylglycyl residue;

20

D is a prolyl, or thiazolidine-4-carbonyl residue;

E is a prolyl, cis-4-fluoro-L-prolyl or cis-4-chloro-L-prolyl residue;

X is isopropyl, sec. butyl, or tert.-butyl ;

s is 0 or 1;

K is $-NHC(CH_3)_3$, $-NHCH(CH_2CH_2)CH(CH_3)_2$, $-NHCH(CH_3)C(CH_3)_3$,

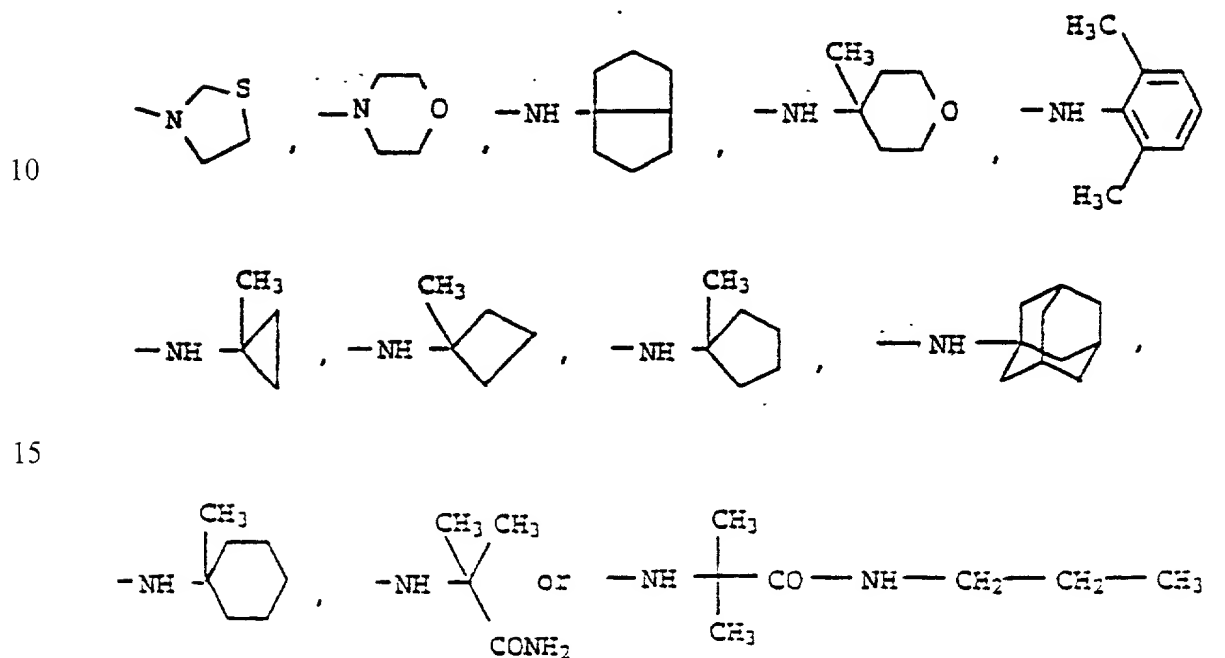
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 $-N(CH_3)OCH_2CH_3$, $-N(CH_3)OCH_2CH_2CH_3$, $-N(CH_3)OCH(CH_3)_2$, $-N(CH_3)O(CH_2)_3CH_3$, $-N(CH_3)OCH_2C_6H_5$, $-NHC(CH_3)_2C_6H_5$, $-NHC(CH_3)_2CH_2CH_3$, $-NHC(CH_3)(CH_2CH_3)_2$, $-NHCH[CH(CH_3)_2]_2$, $-NHC(CH_3)_2CN$, $-NHCH(CH_3)CH(OH)C_6H_5$, $-NH-C(CH_3)_2CH=CH_2$, $-NHC(CH_3)_2C\equiv CH$,

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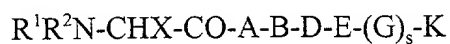
- 5
- NHC(CH₂CH₃)₂C≡CH, -NHC(CH₃)₂CH₂CH₂OH,
 -NHC(CH₃)₂CH(CH₃)₂, -NHC(CH₃)₂CH₂CH₂CH₃,
 -NHC(CH₃)₂CH₂C₆H₅, -N(OCH₃)CH(CH₃)₂, -N(OCH₃)CH₂CH₃,
 -N(OCH₃)CH₂CH₂CH₃, -N(OCH₃)CH₂C₆H₅, -N(OCH₃)C₆H₅,
 -N(CH₃)OC₆H₅, -N(OCH₃)CH₂CH₂CH₂CH₃,

or K is



and the salts thereof with physiologically tolerated acids.

6. Novel peptides of the formula I



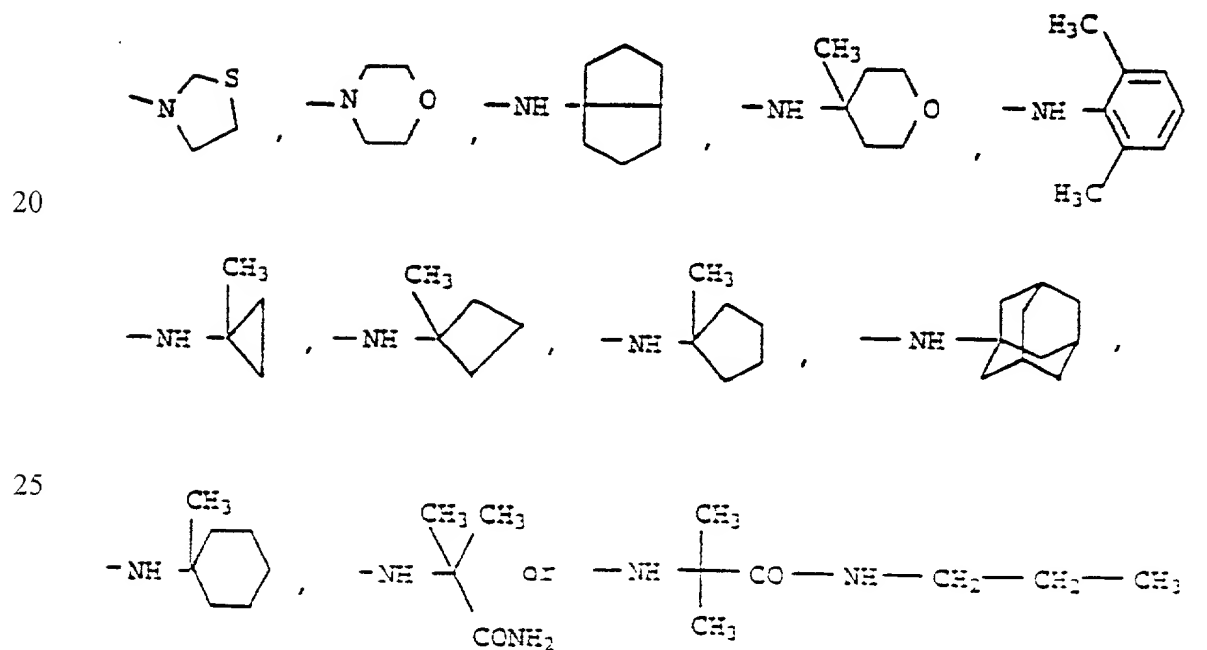
I

25 where

- R¹ is methyl;
 R² is methyl;
 A is a valyl residue;
 B is a N-methyl-valyl residue;

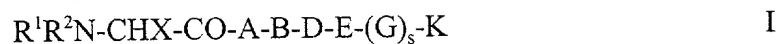
- D is a prolyl residue;
 E is a prolyl residue;
 X is isopropyl ;
 s is 0 or 1;
 5 K is $-\text{NHC}(\text{CH}_3)_3$, $-\text{NHCH}(\text{CH}_2\text{CH}_2)\text{CH}(\text{CH}_3)_2$, $-\text{NHCH}(\text{CH}_3)\text{C}(\text{CH}_3)_3$,
 $-\text{N}(\text{CH}_3)\text{OCH}_2\text{CH}_3$, $-\text{N}(\text{CH}_3)\text{OCH}_2\text{CH}_2\text{CH}_3$, $-\text{N}(\text{CH}_3)\text{OCH}(\text{CH}_3)_2$,
 $-\text{N}(\text{CH}_3)\text{O}(\text{CH}_2)_3\text{CH}_3$, $-\text{N}(\text{CH}_3)\text{OCH}_2\text{C}_6\text{H}_5$, $-\text{NHC}(\text{CH}_3)_2\text{C}_6\text{H}_5$,
 $-\text{NHC}(\text{CH}_3)_2\text{CH}_2\text{CH}_3$, $-\text{NHC}(\text{CH}_3)(\text{CH}_2\text{CH}_3)_2$,
 10 $-\text{NHCH}[\text{CH}(\text{CH}_3)_2]_2$, $-\text{NHC}(\text{CH}_3)_2\text{CN}$, $-\text{NHCH}(\text{CH}_3)\text{CH}(\text{OH})\text{C}_6\text{H}_5$,
 $-\text{NH}-\text{C}(\text{CH}_3)_2\text{CH}=\text{CH}_2$, $-\text{NHC}(\text{CH}_3)_2\text{C}\equiv\text{CH}$,
 $-\text{NHC}(\text{CH}_2\text{CH}_3)_2\text{C}\equiv\text{CH}$, $-\text{NHC}(\text{CH}_3)_2\text{CH}_2\text{CH}_2\text{OH}$,
 $-\text{NHC}(\text{CH}_3)_2\text{CH}(\text{CH}_3)_2$, $-\text{NHC}(\text{CH}_3)_2\text{CH}_2\text{CH}_2\text{CH}_3$,
 $-\text{NHC}(\text{CH}_3)_2\text{CH}_2\text{C}_6\text{H}_5$, $-\text{N}(\text{OCH}_3)\text{CH}(\text{CH}_3)_2$, $-\text{N}(\text{OCH}_3)\text{CH}_2\text{CH}_3$,
 $-\text{N}(\text{OCH}_3)\text{CH}_2\text{CH}_2\text{CH}_3$, $-\text{N}(\text{OCH}_3)\text{CH}_2\text{C}_6\text{H}_5$, $-\text{N}(\text{OCH}_3)\text{C}_6\text{H}_5$,
 15 $-\text{N}(\text{CH}_3)\text{OC}_6\text{H}_5$, $-\text{N}(\text{OCH}_3)\text{CH}_2\text{CH}_2\text{CH}_2\text{CH}_3$,

or K is



and the salts thereof with physiologically tolerated acids.

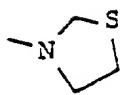
7. Novel peptides of the formula I



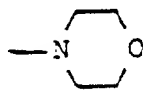
where

- R^1 is methyl;
 5 R^2 is methyl;
 A is a valyl, isoleucyl, or 2-tert-butylglycyl residue;
 B is a N-methyl-valyl, N-methyl-isoleucyl, or N-methyl-2-tert-butylglycyl residue;
 D is a prolyl, or thiazolidine-4-carbonyl residue;
 10 E is a prolyl residue;
 X is isopropyl, sec. butyl, or tert.-butyl ;
 G is a D-2-tert.butylglycyl, D-isoleucyl, 2,2-dimethylglycyl residue, D-valyl or L-2-tert.butylglycyl;
 s is 1;
 15 K is $-NHCH_3$, $-NHCH_2CH_3$, $-NH(CH_2)_2CH_3$, $-NH(CH_2)_3CH_3$, $-NH(CH_2)_4CH_3$, $-NH(CH_2)_5CH_3$, $-NHCH(CH_3)_2$, $-NHCH(CH_3)CH_2CH_3$, $-NHCH(CH_2CH_3)_2$, $-NHC(CH_3)_3$, $-NH$ -cyclohexyl, $-NHC(CH_3)_2CN$, $-NCH(CH_3)_2C\equiv CH$ or $-NHC(CH_3)_2CONH_2$;

20 or K is



or



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and the salts thereof with physiologically tolerated acids.

8. Compounds of formula I or salts thereof for use in treating diseases.
9. The method or preparing compounds of formula I according to claim 1
characterized in that they are prepared according to known methods of peptide
chemistry.

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